National AGH Biotech

Project Report on Dragon Fruit

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Dragon fruit is a tropical fruit that has become increasingly popular in recent years.

National AGH Biotech provides the tissue cultured super clones of dragon fruit which gives definite yield and income to the farmers or growers.

Dragon fruit goes by many names, including pitaya, pitahaya, and strawberry pear. The two most common types have bright red skin with green scales that resemble a dragon, hence the name. The fruit has red pulp and black seeds. Other varieties have yellow skin and white pulp with black seeds.

About National AGH Biotech

- ✓ National AGH Biotech is one of the top most companies producing Hi Quality Tissue Culture Super Clones and agriculture products for over 30 years in compliance with National and Internationally recognized standards.
- ✓ We are the largest processors of dragon fruit clones in the India and premier supplier to the global farmers.
- ✓ We are entrusted with the triple functions of producing trained personnel, carrying out research and extension activities in agriculture and plantation sector.
- ✓ We are having well-established plant tissue culture laboratory with hardening facilities and producing wide variety of Horticulture, Medicine plants.
- ✓ We regularly supply to various Government departments, Organizations and farmers in the areas of Arunachal Pradesh, Meghalaya, Maharashtra,

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Goa, West Bengal, Karnataka, Andhra Pradesh, Telangana and Kerala since 1993 besides exporting to Australia, Malaysia etc.

- ✓ We ensure desired quality in all the seedlings, uniquely qualified to meet these needs of our customers in the different ways that create ongoing good relationship. We can't accomplish them alone. Customer's relationship is an investment in the long-term success of our company.
- ✓ We are nature lovers and doing business to protect nature and making the environment green. Our wish is to make greenery as much as possible.

Potential Health Benefits of National AGH Biotech Dragon Fruits:

Dragon fruit may provide various health benefits. Many of these are likely due to its fiber and antioxidant content. Dragon fruit have been shown to reduce insulin resistance and fatty liver. Dragon fruit contains prebiotic fiber that promotes the growth of beneficial bacteria in your gut — potentially improving metabolic health associated with type 2 diabetes. Much of the results have also shown the benefits of Dragon Fruit in increasing immunity, reduction of calcareous conditions.

- ❖ Dragon fruit is the good source of calcium and phosphorous, strengthens bones.
- ❖ Dragon fruit is the high source of B Vitamins helps in improvement of nervous system.
- ❖ Dragon fruit is rich in vitamin A, hence improves vision and helps in curing eye problems.
- ❖ Dragon fruit is rich in Antioxidants and essential fatty-acids, so works as antiaging agent.
- ❖ Dragon fruit works best in anti-inflammatory conditions.

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- Dragon fruit's high fiber content improves digestion and aids in weight loss. It also improves metabolic rate.
- Dragon fruit is well known for its properties in the treatment of cardiovascular, improving immunity and prevention of cancer.

Key qualities of our Dragon Fruit crop

- Self-pollinated | Disease-resistant | Heat-tolerant | Fast growing
- High flowering | Thin skinned | Attractive shape
- High Brix content | High pulp content
- Early fruiting | Long shelf life

Soil: National AGH Biotech Dragon clones will grow in any type of soils.

Climate: National AGH Biotech Dragon clones will grow well in all tropical climates. They can with stand from 18 °C to 40°C.

Planting: National AGH Biotech supplies the plants grown to a height of 9-12 inches that will save time of production. 5 inches plant should be kept under soli. Plants are planted in the land prepared with poles. 4 plants can be planted for each pole giving scope for 1728 plants per acre at a spacing of 6.5ft.

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The poles shall be of 7 ft height with a circular (4 inches diameter) or 4 x 4inch square with wheel frame. The poles are arranged 2 ft underground and 5 ft above the ground The National AGH Biotech plants should be planted with soil and compost with 50 grams of super phosphate along with bio-mixture.

To get the proper upright growth & development of plants, immature plant stems are required to tie with supporting columns. Lateral shoots bs limited & 2

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to 3 main stems shall be allowed to grow. This will allow the plants to grow and shed like umbrella utilizing space properly for more production.

Manures: Organic Matter plays key role in dragon fruit development and growth. Each plant should be applied with 1 kg of organic compost, 1 kg of bio-mixture and 50 grams of super phosphate at the time of plantation. Thereafter, increase the organic fertilizer amount by 1 kg per year.

Pests & Diseases: National AGH Biotech Dragon clones are resistant to pests and diseases.

Harvesting: These plants start bearing fruits in the first year itself. Generally, these plants start flowering in May to June month and bears fruits from Aug to Dec month. Dragon fruits become ready for harvesting after 1 month of flowering. Fruiting time continues till December. Picking up these fruits can be done up to 6 times within this period. Identifying fruit harvesting stage is very simple as immature fruit colour is in bright green colour and will turn into red colour once it is ripened. Exact time for harvesting is after 3 to 4 days of colour change. But in case of exporting, they should be harvested 1 day after colour change. Use the sickle or hand to pick the fruits.

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Yield: An average yield of 2.5 to 3 tons per acre can be expected per time. There will be 6times crop averaging upto 15 tons or 18tons per year.

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Cost Benefit Analysis:

1 acre	43560	Feet
Spacing	42.25	6.5 sqft
No. of Plants per acre	1728	(432 poles, 4 plants per pole)
Price per plant	400	
Total Plant Cost	691200	
Poles cost	172800	At 400 per pole
land establishment cost	35000	
labour cost	50000	
Total first year	949000	
20% of 1-year maintenance	189800	
for 2 years	379600	
Total investment in 2 years	1328600	

The yield per time is 2.5 tons to 3 Tons. The yield starts in second year. At 3 tons yield and ₹ 250/- per kilo cost the estimate income is ₹ 750000/- Per year there will be 6 times yield so 6 x 7.5 lakhs is ₹ 45000000/- income per year. And the dragon fruit is estimated to give yield upto 25 to 30 years.

Thanking you

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